(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was	_	Application of sewage sludg	е	Disposal of wastewater by irrigation	ı
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
13B: Zook	45	Very limited Restricted permeability Depth to saturated zone Leaching limitation	1.00	Very limited Depth to saturated zone Restricted permeability	1.00	Very limited Depth to saturated zone Restricted permeability Too steep for surface application	1.00 1.00 0.01
Olmitz	30	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
Vesser	20	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Too steep for surface application	1.00
23C: Arispe	100	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too steep for sprinkler application	1.00 0.91 0.43 0.02
23C2: Arispe	100	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too steep for sprinkler application	1.00 0.91 0.43 0.02

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was	_			Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
24D: Shelby	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	application Too steep for sprinkler application	0.77
		Too acid	0.02	Too acid	0.07	Restricted permeability Too acid	0.22
24D2: Shelby	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	application Too steep for sprinkler application	0.77
		Too acid	0.02	Too acid	0.07	Restricted permeability Too acid	0.22
24E2: Shelby	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	application Too steep for sprinkler	1.00
		Too acid	0.02	Too acid	0.07	application Restricted permeability Too acid	0.22
24E3: Shelby	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	application Too steep for sprinkler	1.00
		Too acid	0.02	Too acid	0.07	application Restricted permeability Too acid	0.22

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was	_	Application of sewage sludg	е	Disposal of wastewater by irrigation	ı
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
24F2: Shelby	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface	1.00
		Restricted permeability Too acid	0.30	Restricted permeability Too acid	0.22	application Too steep for sprinkler application Restricted	1.00
51:	90	None limited		Viene limited		permeability Too acid	0.07
Vesser	90	Very limited Depth to saturated zone Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00	Very limited Depth to saturated zone Flooding	1.00
51+: Vesser	90	Very limited Depth to saturated zone Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00	Very limited Depth to saturated zone Flooding	1.00
51B: Vesser	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Too steep for surface application	1.00
51B+: Vesser	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Too steep for surface application	1.00
54: Zook	95	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Depth to saturated zone Flooding	1.00	Very limited Depth to saturated zone Restricted permeability	1.00

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was	_	Application of sewage sludg	e	Disposal of wastewater by irrigation	L
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Flooding Leaching limitation	0.60	Restricted permeability	1.00	Flooding	0.60
54+: Zook	95	Very limited Restricted permeability Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.60 0.50	Very limited Depth to saturated zone Flooding Restricted permeability	1.00	Very limited Depth to saturated zone Restricted permeability Flooding	1.00
54B: Zook	90	Very limited Restricted permeability Depth to saturated zone Leaching limitation	1.00	Very limited Depth to saturated zone Restricted permeability	1.00	Very limited Depth to saturated zone Restricted permeability Too steep for surface application	1.00
65E: Lindley	95	Very limited Slope Restricted	1.00	Very limited Slope Too acid	1.00	Very limited Too steep for surface application Too steep for	1.00
		permeability Too acid	0.08	Restricted permeability	0.22	sprinkler application Too acid Restricted permeability	0.31
65E2: Lindley	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface	1.00
		Restricted permeability	0.30	Too acid	0.31	application Too steep for sprinkler application	1.00

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was	Application of sewage sludg	e	Disposal of wastewater by irrigation	L	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65F: Lindley	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid Restricted	0.31
65F2:						permeability	0.22
Lindley	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
						Restricted permeability	0.22
65G: Lindley	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface	1.00
		Restricted permeability	0.30	Too acid	0.31	application Too steep for sprinkler	1.00
		Too acid	0.08	Restricted permeability	0.22	application Too acid	0.31
						Restricted permeability	0.22
65G2: Lindley	95	 Very limited		 Very limited		 Very limited	

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Lucas County, Iowa

Map symbol and soil name	Pct. Application of of manure and food-map processing wast		_	Application of sewage sludg	e	Disposal of wastewater by irrigation	ı
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Slope	1.00	Slope	1.00	Too steep for surface application	1.00
		Restricted permeability	0.30	Too acid	0.31	Too steep for sprinkler application	1.00
		Too acid	0.08	Restricted permeability	0.22	Too acid	0.31
				pormodorring		Restricted permeability	0.22
93D2: Shelby	60	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.77
		Too acid	0.02	Too acid	0.07	Restricted permeability Too acid	0.22
Adair	40	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
						Too steep for sprinkler application	0.77
94D2: Mystic	60	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00
		Slope	0.63	Slope	0.63	Depth to saturated zone	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was	_	Application of sewage sludg	e	Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too acid	0.31
Caleb	40	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface	1.00
		Too acid	0.08	Too acid	0.31	application Too steep for sprinkler application	0.77
94E2:						Too acid	0.31
Mystic	60	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Slope	1.00	Slope	1.00	Too steep for sprinkler	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	application Restricted permeability	1.00
		Too acid	0.08	Too acid	0.31	Depth to saturated zone Too acid	1.00
Caleb	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface	1.00
		Too acid	0.08	Too acid	0.31	application Too steep for sprinkler	1.00
						application Too acid	0.31
131B: Pershing	90	Very limited Restricted	1.00	Very limited Restricted	1.00	Very limited Restricted	1.00
		permeability Depth to saturated zone Too acid	0.43	permeability Depth to saturated zone Too acid	0.43	permeability Depth to saturated zone Too acid Too steep for surface application	0.43 0.31 0.08
131C: Pershing	100	 Very limited		 Very limited		 Very limited	

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was	_	Application of sewage sludg	e	Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Restricted permeability Depth to saturated zone	1.00	Restricted permeability Depth to saturated zone	1.00	Restricted permeability Too steep for surface	1.00
		Too acid	0.08	Too acid	0.31	application Depth to saturated zone Too acid Too steep for sprinkler application	0.43
131C2: Pershing	100	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too acid Too steep for sprinkler application	1.00 0.91 0.43 0.31 0.02
131D2: Pershing	100	Very limited Restricted permeability Slope	1.00	Very limited Restricted permeability Slope	1.00	Very limited Too steep for surface application Restricted	1.00
		Depth to saturated zone	0.43	Depth to saturated zone	0.43	permeability Too steep for sprinkler	0.77
		Too acid	0.08	Too acid	0.31	application Depth to saturated zone Too acid	0.43
132B: Weller	100	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.43 0.31	Very limited Restricted permeability Depth to saturated zone Too acid	1.00

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was	_	Application of sewage sludg	е	Disposal of wastewater by irrigation	1
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for surface application	0.08
132C: Weller	100	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 0.43 0.31	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too acid Too steep for sprinkler application	1.00 0.91 0.43 0.31 0.02
132C2: Weller	100	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too acid Too steep for sprinkler application	1.00 0.91 0.43 0.31 0.02
132D2: Weller	100	Very limited Restricted permeability Slope Depth to saturated zone Too acid	1.00 0.63 0.43	Very limited Restricted permeability Slope Depth to saturated zone Too acid	1.00 0.63 0.43	Very limited Too steep for surface application Restricted permeability Too steep for sprinkler application Depth to saturated zone Too acid	1.00 1.00 0.77 0.43 0.31
172: Wabash	95	 Very limited		 Very limited		 Very limited	

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was	Application of sewage sludg	е	Disposal of wastewater by irrigation	ı	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Restricted permeability Depth to saturated zone Flooding Runoff limitation	1.00 1.00 0.60 0.40	Restricted permeability Depth to saturated zone Flooding	1.00	Restricted permeability Depth to saturated zone Flooding	1.00
179D2: Gara	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application Restricted permeability	0.77
179E: Gara	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application Restricted permeability	0.22
179E2: Gara	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	application Too steep for sprinkler application Restricted permeability	1.00
179E3: Gara	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	1.00

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was	Application of sewage sludg	е	Disposal of wastewater by irrigation	L	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Restricted permeability	0.22
179F: Gara	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application Restricted permeability	0.22
179F2: Gara	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application Restricted permeability	0.22
179G2: Gara	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	application Too steep for sprinkler application Restricted permeability	1.00
192C2: Adair	95	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone Too steep for surface application	1.00 1.00 0.91

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	of manure and food- ap processing waste		Application of sewage sludg	Application Dispose of sewage sludge wastewed by irrig		ater	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
						Too steep for sprinkler application	0.02	
192D2: Adair	95	Very limited Restricted permeability Depth to saturated zone Slope	1.00	Very limited Restricted permeability Depth to saturated zone Slope	1.00	Very limited Too steep for surface application Restricted permeability Depth to saturated zone Too steep for sprinkler application	1.00 1.00 1.00 0.77	
211: Edina	90	Very limited Restricted permeability Depth to saturated zone Runoff limitation Too acid	1.00 1.00 0.40 0.02	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	
220: Nodaway	90	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60	
222C: Clarinda	100	Very limited Restricted permeability Depth to saturated zone Runoff limitation Too acid	1.00 1.00 0.40 0.02	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too acid Too steep for sprinkler application	1.00 1.00 0.91 0.07 0.02	
222C2: Clarinda	100	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	manure and food- processing waste		Application of sewage sludg	Application of sewage sludge		1
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Depth to saturated zone Runoff limitation Too acid	1.00	Depth to saturated zone Too acid	1.00	Depth to saturated zone Too steep for surface application Too acid Too steep for sprinkler application	1.00 0.91 0.07 0.02
222C3: Clarinda	100	Very limited Restricted permeability Depth to saturated zone Runoff limitation Too acid	1.00 1.00 0.40 0.02	Very limited Restricted permeability Depth to saturated zone Too acid	1.00 1.00 0.07	Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too acid Too steep for sprinkler application	1.00 1.00 0.91 0.07 0.02
222D2: Clarinda	100	Very limited Restricted permeability Depth to saturated zone Slope Runoff limitation Too acid	1.00 1.00 0.63 0.40	Very limited Restricted permeability Depth to saturated zone Slope Too acid	1.00 1.00 0.63 0.07	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too steep for sprinkler application Too acid	1.00 1.00 1.00 0.77 0.07
223C2: Rinda	100	Very limited Restricted permeability Depth to saturated zone Runoff limitation Too acid	1.00 1.00 0.40	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too acid	1.00 1.00 0.91

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was		Application of sewage sludg	e	Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for sprinkler application	0.02
223D2: Rinda	100	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Too steep for surface	1.00
		Slope	0.63	Slope	0.63	application Depth to saturated zone	1.00
		Runoff limitation Too acid	0.40	Too acid	0.07	Too steep for sprinkler application Too acid	0.77
269: Humeston	95	Very limited Restricted permeability Depth to saturated zone Flooding Leaching limitation Too acid	1.00 1.00 0.60 0.50	Very limited Restricted permeability Depth to saturated zone Flooding Too acid	1.00 1.00 1.00 0.07	Very limited Restricted permeability Depth to saturated zone Flooding Too acid	1.00 1.00 0.60 0.07
269+: Humeston	95	Very limited Restricted permeability Depth to saturated zone Flooding Leaching limitation Too acid	1.00 1.00 0.60 0.50 0.02	Very limited Restricted permeability Depth to saturated zone Flooding Too acid	1.00 1.00 1.00 0.07	Very limited Restricted permeability Depth to saturated zone Flooding Too acid	1.00 1.00 0.60 0.07
273B: Olmitz	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
273C: Olmitz	100	 Not limited		Not limited		 Somewhat limited	

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was	_	Application of sewage sludg	e	Disposal of wastewater by irrigation	ı
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for surface application Too steep for sprinkler application	0.91
313D2: Gosport	90	Somewhat limited Depth to saturated zone	0.95	Somewhat limited Depth to saturated zone	0.95	Very limited Too steep for surface application	1.00
		Droughty	0.75	Droughty	0.75	Depth to	0.95
		Slope	0.63	Slope	0.63	saturated zone Too steep for sprinkler application	0.77
		Depth to bedrock Restricted permeability	0.46	Depth to bedrock Restricted permeability	0.46	Droughty Depth to bedrock	0.75
313E2: Gosport	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface	1.00
		Depth to saturated zone	0.95	Depth to saturated zone	0.95	application Too steep for sprinkler application	1.00
		Droughty	0.75	Droughty	0.75	Depth to saturated zone	0.95
		Depth to bedrock Restricted permeability	0.46	Depth to bedrock Restricted permeability	0.46	Droughty Depth to bedrock	0.75
313F: Gosport	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface	1.00
		Depth to saturated zone	0.95	Depth to saturated zone	0.95	application Too steep for sprinkler application	1.00
		Droughty	0.71	Droughty	0.71	Depth to saturated zone	0.95
		Depth to bedrock	0.46	Depth to bedrock	0.46	Droughty	0.71

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	manure and food- processing waste		Application of sewage sludg	e	Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Restricted permeability	0.30	Restricted permeability	0.22	Depth to bedrock	0.46
313F2: Gosport	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
		Depth to saturated zone	0.95	Depth to saturated zone	0.95	Too steep for sprinkler	1.00
		Droughty	0.75	Droughty	0.75	application Depth to saturated zone	0.95
		Depth to bedrock Restricted permeability	0.46	Depth to bedrock Restricted permeability	0.46	Droughty Depth to bedrock	0.75
362: Haig	90	Very limited Restricted permeability Depth to saturated zone Leaching limitation	1.00 1.00 0.50	Very limited Depth to saturated zone Restricted permeability	1.00	Very limited Depth to saturated zone Restricted permeability	1.00
364B: Grundy	95	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone Too steep for surface application	1.00 0.95 0.08
423C2: Bucknell	95	Very limited Restricted permeability Depth to saturated zone Runoff limitation	1.00	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone Too steep for surface application	1.00

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing was	_	Application of sewage sludg	e	Disposal of wastewater by irrigation	L
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for sprinkler application	0.02
423D: Bucknell	95	Very limited Restricted permeability Depth to saturated zone Slope Runoff limitation	1.00 1.00 0.63 0.40	Very limited Restricted permeability Depth to saturated zone Slope	1.00	Very limited Too steep for surface application Restricted permeability Depth to saturated zone Too steep for	1.00 1.00 1.00 0.77
423D2: Bucknell	95	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	sprinkler application Very limited Too steep for surface	1.00
		Depth to saturated zone Slope Runoff limitation	1.00 0.63 0.40	Depth to saturated zone Slope	1.00	application Restricted permeability Depth to saturated zone Too steep for sprinkler application	1.00 1.00 0.77
425D: Keswick	95	Very limited Restricted permeability Depth to saturated zone Slope Too acid	1.00 1.00 0.63 0.08	Very limited Restricted permeability Depth to saturated zone Slope Too acid	1.00 1.00 0.63 0.31	Very limited Too steep for surface application Restricted permeability Depth to saturated zone Too steep for sprinkler application Too acid	1.00 1.00 1.00 0.77
425D2: Keswick	95	 Very limited		 Very limited		 Very limited	

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was	Application of sewage sludg	е	Disposal of wastewater by irrigation	L	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Restricted permeability	1.00	Restricted permeability	1.00	Too steep for surface application	1.00
		Depth to saturated zone	1.00	Depth to saturated zone Slope	1.00	Restricted permeability	1.00
		Slope Too acid	0.08	Too acid	0.83	Depth to saturated zone Too steep for sprinkler application Too acid	0.77
430: Ackmore	90	Very limited Depth to saturated zone Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00	Very limited Depth to saturated zone Flooding	1.00
451D2: Caleb	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface	1.00
		Too acid	0.08	Too acid	0.31	application Too steep for sprinkler application Too acid	0.77
451E2: Caleb	90	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface	1.00
		Too acid	0.08	Too acid	0.31	application Too steep for sprinkler application Too acid	1.00
452C: Lineville	100	Very limited Restricted permeability Depth to dense layer Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone Too steep for surface application	1.00

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Lucas County, Iowa

Map symbol and soil name	d soil name of ma			Application of sewage sludg	Application of sewage sludge		
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for sprinkler application	0.02
452C2: Lineville	100	Very limited Restricted permeability Depth to dense layer Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too steep for sprinkler application	1.00 1.00 0.91 0.02
453: Tuskeego	95	Very limited Restricted permeability Depth to saturated zone Leaching limitation Too acid	1.00 1.00 0.50 0.02	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too acid	1.00
470D2: Lamoni	70	Very limited Restricted permeability Depth to saturated zone Slope Too acid	1.00 1.00 0.63 0.02	Very limited Restricted permeability Depth to saturated zone Slope Too acid	1.00 1.00 0.63 0.07	Very limited Too steep for surface application Restricted permeability Depth to saturated zone Too steep for sprinkler application Too acid	1.00 1.00 1.00 0.77
Shelby	30	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	permeability	0.22	Too steep for sprinkler application	0.77

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was	_	Application of sewage sludg	e	Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Too acid	0.02	Too acid	0.07	Restricted permeability Too acid	0.22
484: Lawson	90	Very limited Depth to saturated zone Flooding Runoff limitation	1.00 0.60 0.40	Very limited Flooding Depth to saturated zone	1.00	Very limited Depth to saturated zone Flooding	1.00
587: Chequest	90	Very limited Depth to saturated zone Flooding Restricted permeability	1.00 0.60 0.30	Very limited Depth to saturated zone Flooding Restricted permeability	1.00	Very limited Depth to saturated zone Flooding Restricted permeability	1.00
587+: Chequest	90	Very limited Depth to saturated zone Flooding Restricted permeability	1.00 0.60 0.30	Very limited Depth to saturated zone Flooding Restricted permeability	1.00	Very limited Depth to saturated zone Flooding Restricted permeability	1.00 0.60 0.22
592C2: Mystic	90	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too acid Too steep for sprinkler application	1.00 1.00 0.91 0.31 0.02
592D2: Mystic	90	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing was	_	Application of sewage sludg	e	Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Depth to saturated zone Slope	1.00	Depth to saturated zone Slope	1.00	Restricted permeability Depth to saturated zone	1.00
		Too acid	0.08	Too acid	0.31	Too steep for sprinkler application	0.77
711:							
Nodaway	70	Somewhat limited Flooding Runoff limitation	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
Lawson	25	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00	Very limited Depth to saturated zone	1.00
		Flooding	0.60	Depth to saturated zone	1.00	Flooding	0.60
		Runoff limitation	0.40				
792C: Armstrong	100	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone Too steep for surface application	1.00
						Too steep for sprinkler application	0.02
792C2: Armstrong	100	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone	1.00	Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too steep for sprinkler application	1.00 1.00 0.91 0.02

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was	_	Application of sewage sludg	e	Disposal of wastewater by irrigation	ı
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
792D: Armstrong	100	Very limited Restricted permeability Depth to saturated zone Slope	1.00	Very limited Restricted permeability Depth to saturated zone Slope	1.00	Very limited Too steep for surface application Restricted permeability Depth to saturated zone Too steep for sprinkler application	1.00 1.00 1.00 0.77
792D2: Armstrong	100	Very limited Restricted permeability Depth to saturated zone Slope	1.00	Very limited Restricted permeability Depth to saturated zone Slope	1.00	Very limited Too steep for surface application Restricted permeability Depth to saturated zone Too steep for sprinkler application	1.00 1.00 1.00 0.77
792D3: Armstrong	- 100	Very limited Restricted permeability Depth to saturated zone Slope	1.00 1.00 0.63	Very limited Restricted permeability Depth to saturated zone Slope	1.00	Very limited Too steep for surface application Restricted permeability Depth to saturated zone Too steep for sprinkler application	1.00 1.00 1.00 0.77
822C: Lamoni	95	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too steep for surface application	1.00 1.00 0.91

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was	_	Application of sewage sludg	e	Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for sprinkler application Too acid	0.02
822C2: Lamoni	95	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too steep for surface application Too steep for	1.00 1.00 0.91
822D: Lamoni	95	Very limited	1 00	Very limited	1 00	sprinkler application Too acid Very limited	0.01
		Restricted permeability Depth to saturated zone Slope Too acid	1.00 1.00 0.63	Restricted permeability Depth to saturated zone Slope Too acid	1.00 1.00 0.63 0.01	Too steep for surface application Restricted permeability Depth to saturated zone Too steep for	1.00 1.00 1.00
822D2: Lamoni	95	Very limited Restricted	1.00	Very limited Restricted	1.00	sprinkler application Too acid Very limited Too steep for	0.01
		permeability Depth to saturated zone Slope Too acid	1.00 0.63 0.01	permeability Depth to saturated zone Slope Too acid	1.00 0.63 0.01	surface application Restricted permeability Depth to saturated zone Too steep for sprinkler application Too acid	1.00 1.00 0.77 0.01

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Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was	_	Application of sewage sludg	е	Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
831B: Pershing	100	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too acid Too steep for surface application	1.00 0.43 0.31 0.08
831C: Pershing	100	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too acid Too steep for sprinkler application	1.00 0.91 0.43 0.31 0.02
831C2: Pershing	100	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Depth to saturated zone Too acid	1.00	Very limited Restricted permeability Too steep for surface application Depth to saturated zone Too acid Too steep for sprinkler application	1.00 0.91 0.43 0.31 0.02
894D2: Bucknell	65	Very limited Restricted permeability Depth to saturated zone Slope	1.00 1.00 0.63	Very limited Restricted permeability Depth to saturated zone Slope	1.00 1.00 0.63	Very limited Too steep for surface application Restricted permeability Depth to saturated zone	1.00

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Lucas County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Runoff limitation	0.40	Too acid	0.07	Too steep for sprinkler application	0.77
		Too acid	0.02			Too acid	0.07
Gara	35	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application Restricted	0.77
						permeability	
993D2: Gara	60	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	application Too steep for sprinkler application Restricted permeability	0.77
Armstrong	40	Very limited Restricted permeability	1.00	Very limited Restricted permeability	1.00	Very limited Too steep for surface application	1.00
		Depth to	1.00	Depth to	1.00	Restricted	1.00
		saturated zone Slope	0.63	saturated zone Slope	0.63	permeability Depth to	1.00
						saturated zone Too steep for sprinkler application	0.77
1711:							
Nodaway	65	Very limited Flooding Runoff limitation	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
Lawson	25	Very limited Flooding Depth to saturated zone	1.00	Very limited Flooding Depth to saturated zone	1.00	Very limited Flooding Depth to saturated zone	1.00

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Lucas County, Iowa

Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
100	Not rated		Not rated		Not rated	
100	Not rated		Not rated		Not rated	
100	Not rated		Not rated		Not rated	
100	Not rated		Not rated		Not rated	
100	Not rated		Not rated		Not rated	
100	Not rated		Not rated		Not rated	
	of map unit	manure and food- processing wast Rating class and limiting features Not rated Not rated Not rated Not rated Not rated	of map unit Rating class and limiting features Not rated Not rated Not rated Not rated Not rated Not rated	of manure and foodprocessing waste Rating class and limiting features Not rated Not rated	of manure and foodprocessing waste Rating class and limiting features Not rated Not rated	of manure and food-processing waste Rating class and limiting features Not rated Not rated